

What is claimed is:

1. A playback apparatus to perform a playback operation on a storage medium in which audio data and catalog information related to the audio data, wherein the catalog information comprises a still picture for a background image, a sub-picture for a caption, and navigation information for controlling the still picture and the sub-picture, the playback apparatus comprising:

a decoding unit to decode the audio data, the still picture, the sub-picture and the navigation information;

a storage device to store the still picture, the sub-picture and the navigation information of the audio data which is to be played back; and

a controller to control the decoding unit and the storage device, so as to simultaneously decode the audio data to be played back and the still picture, the sub-picture and the navigation information corresponding to the audio data to be played.

2. The playback apparatus of claim 1, wherein the controller stores the still picture, the sub-picture and the navigation information of the audio data which is to be played back prior to playing back the audio data.

3. The playback apparatus of claim 1, wherein catalog playback information is stored on the storage medium, and the controller distinguishes whether the catalog playback information exists in the storage medium by defining file names of the catalog playback information, defining a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, or defining information indicating whether of a file exists in which the catalog playback information is stored and a location of the file in a volume information region, during the playback operation.

4. A playback apparatus to perform a playback operation on a storage medium in which audio data and catalog information related to the audio data, wherein the catalog information comprises a still picture for a background image, a sub-picture for a caption, and navigation information for controlling the still picture and the sub-picture, the playback apparatus comprising:

a storing unit which stores the still picture, the sub-picture, the navigation information and additional information relating to the audio data;

a video decoder which decodes the still picture, the sub-picture, the navigation information and the additional information, to generate a restored image;
an audio decoder which decodes the audio data, to generate restored audio signals;
and
a controller to which controls playback of the catalog information corresponding to a selection of a user.

5. The playback apparatus of claim 4, wherein the controller reads the still picture, the sub-picture, and the navigation information from the storing unit in a predetermined sequence.

6. The playback apparatus of claim 4, wherein the still picture, the sub-picture, and the navigation information stored in the storing unit is defined within a predetermined size.

7. The playback apparatus of claim 4, wherein the additional information is the sub-picture for transferring characters.

8. The playback apparatus of claim 4, wherein the video decoder decodes the catalog information according to a standard digital versatile disk-video (DVD-Video) specification.

9. The playback apparatus of claim 4, wherein catalog playback information is stored on the storage medium, and the catalog playback information includes a file identifier and an audio presentation information table determining a location of the catalog information to be played back corresponding to a predetermined time in accordance with real-time playback information of audio obtained from the audio data during real-time playback, wherein if a user does not enter a catalog selection command for a given time during a playback mode of the audio data, the controller reads the audio information table to extract the corresponding catalog information of the audio data being played back.

10. A playback apparatus to perform a playback operation of encoded audio data and encoded catalog information related to the audio data, the encoded audio data and encoded catalog are stored on a storage medium, and the catalog information comprises a still picture for a background image, a sub-picture for a caption, and navigation information for controlling the still picture and the sub-picture, the playback apparatus comprising:

an optical pickup which reads the encoded audio data, still picture, sub-picture, and navigation information; and

a decoding unit which decodes the encoded audio data, still picture, sub-picture, and navigation information read from the storage medium.

11. The playback apparatus according to claim 10, further comprising:

a storage device which stores the read encoded still picture, sub-picture, and navigation information prior to the optical pickup reading the encoded audio data from the storage medium.

12. A playback apparatus for playing back catalog information relating to DVD-audio and the DVD-audio, wherein the catalog information and the DVD-audio are stored on a DVD, and the catalog information comprises a still picture for a background image, a sub-picture for a caption, and navigation information for controlling the still picture and the sub-picture the playback apparatus comprising:

an optical pickup which reads the DVD-audio and the corresponding still picture, sub-picture, and navigation information; and

a processor which reproduces the still picture, sub-picture, and navigation information using an editing system for DVD-video and the DVD-audio.

13. The playback apparatus according to claim 12, wherein the DVD stores DVD-video, and the processor reproduces the DVD-video according to the editing system for the DVD-video.

14. A playback apparatus for playing back catalog information relating to DVD-audio and the DVD-audio, wherein the catalog information includes still pictures for background images and sub-pictures for captions having character information, the playback apparatus comprising:

an optical pickup to read the DVD-audio and the corresponding catalog information; and

a processor which reproduces the catalog information and the DVD-audio, and reproduces the sub-pictures so that the character information is processed according to a DVD-video specification.

15. The playback apparatus according to claim 14, wherein the processor does not process the character information as still pictures.

16. A recording apparatus to perform a recording on a storage medium, comprising:

an encoding unit to encode audio data and catalog information related to the audio data, wherein the catalog information comprises a still picture for a background image, a sub-picture for a caption, and navigation information for controlling the still picture and the sub-picture; and

an optical pickup to record the encoded audio data, still picture, sub-picture, and navigation information on the storage medium.

17. The recording apparatus according to claim 16, wherein catalog playback information is stored on the storage medium, the recording apparatus further comprising a controller which defines file names of the still picture, sub-picture, and navigation information for storage on the storage medium, defines a region of the storage medium predetermined by a physical or logical address designated as a space for storing the catalog playback information, or defines information indicating whether a file exists on the storage medium in which the catalog playback information is stored and a location of the file in a volume information region of the storage medium.

18. The recording apparatus according to claim 16, wherein the still picture, sub-picture, and navigation information comprise common catalog data for information commonly applied for the entire audio data recorded on the storage medium and title catalog data having information corresponding to each distinct item of the audio data.

19. The recording apparatus according to claim 16, wherein:

the encoding unit encodes video data representing an image which is the still picture relating to the audio data, and additional information which represents the sub-picture for transferring characters; and

the optical pickup records the encoded video data and the encoded additional information on the storage medium.

20. The recording apparatus according to claim 16, wherein the encoding unit encodes the catalog information according a standard digital versatile disk-video (DVD-video) specification.

21. The recording apparatus according to claim 16, wherein the optical pickup records the still picture, sub-picture, and navigation information in an image information region of a volume space of the storage medium, and records the audio data in an audio region of the storage medium.

22. The recording apparatus according to claim 17, wherein the still picture, sub-picture, and navigation information comprise common catalog information for all of the audio data and title catalog information for distinct items of the audio data, and the optical pickup records the common catalog information and the title catalog information in an image title set of the image information region, and the optical pickup records the catalog playback information in an audio management region of the audio region and the distinct items of the audio data in respective audio title sets of the audio region.

23. The recording apparatus according to claim 18, wherein the title catalog information is divided in distinct title catalog information corresponding to the respective ones of the distinct items of the audio data, and the optical pickup records the distinct title catalog information into respective program chains of the image title set.

24. The recording apparatus according to claim 17, wherein the catalog playback information comprises locations of image information in which the catalog information is recorded, a file identifier, and an auto presentation information table in which is stored the locations of one item of the catalog information to be played back corresponding to a predetermined time according to real-time playback information of the audio data obtained by real-time playback of the audio data.

25. The recording apparatus according to claim 16, further comprising:
a decoding unit which decodes the encoded audio data and the encoded still picture, sub-picture, and navigation information read from the storage medium;
wherein the optical pickup reads the encoded audio data, still picture, sub-picture, and navigation information.

26. The recording apparatus according to claim 25, further comprising:
a storage device which stores the still picture, sub-picture, and navigation
information of the audio data which is to be played back; and
a controller which controls the decoding unit and the storage device, so as to
simultaneously decode the audio data to be played back and the still picture, sub-picture,
and navigation information corresponding to the audio data to be played back.